

July 11, 2018

Mort Schmidt Cox-Colvin & Associates 7750 Corporate Blvd. Plain City, OH 43064

RE: Project: AK Steel Middletown, Fenceline

Pace Project No.: 10438289

Dear Mort Schmidt:

Enclosed are the analytical results for sample(s) received by the laboratory on July 05, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne That

Carolynne Trout carolynne.trout@pacelabs.com 1(612)607-6351 Project Manager

Enclosures

cc: Lab Info, Cox-Colvin & Associates Kathy Sarver, Cox-Colvin & Associates Henry Stahl, Cox-Colvin & Associates





CERTIFICATIONS

Project: AK Steel Middletown, Fenceline

Pace Project No.: 10438289

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01 Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014 Arkansas DW Certification #: MN00064 Arkansas WW Certification #: 88-0680 California Certification #: 2929 CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064 Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-

053-137

Florida Certification #: E87605 Georgia Certification #: 959

Guam EPA Certification #: MN00064 Hawaii Certification #: MN00064 Idaho Certification #: MN00064 Illinois Certification #: 200011 Indiana Certification #: C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167

Kentucky DW Certification #: 90062 Kentucky WW Certification #: 90062 Louisiana DEQ Certification #: 03086 Louisiana DW Certification #: MN00064

Maine Certification #: MN00064 Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647

North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382

Wyoming UST Certification #: 2926.01 via A2LA

Wisconsin Certification #: 999407970



SAMPLE SUMMARY

Project: AK Steel Middletown, Fenceline

Pace Project No.: 10438289

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10438289001	AKAA-01	Air	06/30/18 10:19	07/05/18 08:40
10438289002	AKAA-01 cert #1768	Air	06/30/18 10:19	07/05/18 08:40
10438289003	AKAA-02	Air	06/30/18 10:28	07/05/18 08:40
10438289004	AKAA-02 cert #1481	Air	06/30/18 10:28	07/05/18 08:40
10438289005	AKAA-03	Air	06/30/18 10:00	07/05/18 08:40
10438289006	AKAA-03 cert #2689	Air	06/30/18 10:00	07/05/18 08:40
10438289007	AKAA-01	Air	07/01/18 09:20	07/05/18 08:40
10438289008	AKAA-01 cert #2390	Air	07/01/18 09:20	07/05/18 08:40
10438289009	AKAA-02	Air	07/01/18 09:27	07/05/18 08:40
10438289010	AKAA-02 cert #2029	Air	07/01/18 09:27	07/05/18 08:40
10438289011	AKAA-03	Air	07/01/18 09:04	07/05/18 08:40
10438289012	AKAA-03 cert #1267	Air	07/01/18 09:04	07/05/18 08:40
10438289013	AKAA-01	Air	07/02/18 09:45	07/05/18 08:40
10438289014	AKAA-01 cert #1281	Air	07/02/18 09:45	07/05/18 08:40
10438289015	AKAA-02	Air	07/02/18 10:55	07/05/18 08:40
10438289016	AKAA-02 cert #2811	Air	07/02/18 10:55	07/05/18 08:40
10438289017	Unused Can #1255	Air		07/05/18 08:40



SAMPLE ANALYTE COUNT

Project: AK Steel Middletown, Fenceline

Pace Project No.: 10438289

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10438289001	AKAA-01	TO-15	CH1	1	PASI-M
10438289002	AKAA-01 cert #1768	TO-15	AFV	1	PASI-M
10438289003	AKAA-02	TO-15	MJL	1	PASI-M
10438289004	AKAA-02 cert #1481	TO-15	NCK	1	PASI-M
10438289005	AKAA-03	TO-15	MJL	1	PASI-M
10438289006	AKAA-03 cert #2689	TO-15	NCK	1	PASI-M
10438289007	AKAA-01	TO-15	MJL	1	PASI-M
10438289008	AKAA-01 cert #2390	TO-15	NCK	1	PASI-M
10438289009	AKAA-02	TO-15	MJL	1	PASI-M
10438289010	AKAA-02 cert #2029	TO-15	CH1	1	PASI-M
10438289011	AKAA-03	TO-15	MJL	1	PASI-M
10438289012	AKAA-03 cert #1267	TO-15	NCK	1	PASI-M
10438289013	AKAA-01	TO-15	MJL	1	PASI-M
10438289014	AKAA-01 cert #1281	TO-15	MJL	1	PASI-M
10438289015	AKAA-02	TO-15	MJL	1	PASI-M
10438289016	AKAA-02 cert #2811	TO-15	NCK	1	PASI-M



ANALYTICAL RESULTS

Project: AK Steel Middletown, Fenceline

Pace Project No.: 10438289

Date: 07/11/2018 12:30 PM

Pace Project No.: 10438289								
Sample: AKAA-01	Lab ID: 104	38289001	Collected: 06/30/1	8 10:19	Received:	07/05/18 08:40 1	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Met	nod: TO-15						
Benzene	ND	ug/m3	0.48	1.49		07/06/18 13:31	71-43-2	
Sample: AKAA-01 cert #1768	Lab ID: 104	38289002	Collected: 06/30/1	8 10:19	Received:	07/05/18 08:40	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Met	nod: TO-15						
Benzene	ND	ug/m3	0.32	1		06/13/18 00:54	1 71-43-2	
Sample: AKAA-02	Lab ID: 104	38289003	Collected: 06/30/1	8 10:28	Received:	07/05/18 08:40 [Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Met	nod: TO-15						
Benzene	14.0	ug/m3	0.47	1.46		07/06/18 14:07	71-43-2	
Sample: AKAA-02 cert #1481	Lab ID: 104	38289004	Collected: 06/30/1	8 10:28	Received:	07/05/18 08:40 I	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Met	nod: TO-15						
Benzene	ND	ug/m3	0.32	1		06/12/18 20:40	71-43-2	
Sample: AKAA-03	Lab ID: 104	38289005	Collected: 06/30/1	8 10:00	Received:	07/05/18 08:40 I	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Met	nod: TO-15						
Benzene	0.56	ug/m3	0.48	1.49		07/06/18 14:43	3 71-43-2	
Sample: AKAA-03 cert #2689	Lab ID: 104	38289006	Collected: 06/30/1	8 10:00	Received:	07/05/18 08:40 I	Matrix: Air	***************************************
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Met	nod: TO-15			-			
Benzene	ND	ug/m3	0.32	1		06/12/18 21:14	1 71-43-2	

Pace Analytical www.pacelabs.com

Pace Analytical Services, LLC 1700 Elm Street - Suite 200 Minneapolis, MN 55414 (612)607-1700

ANALYTICAL RESULTS

Project: AK Steel Middletown, Fenceline

Pace Project No.: 10438289

Date: 07/11/2018 12:30 PM

Pace Project No.: 10438289								
Sample: AKAA-01	Lab ID: 104	38289007	Collected: 07/01/1	8 09:20	Received:	07/05/18 08:40	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Met	hod: TO-15						
Benzene	ND	ug/m3	0.51	1.58		07/06/18 15:18	3 71-43-2	
Sample: AKAA-01 cert #2390	Lab ID: 104	38289008	Collected: 07/01/1	8 09:20	Received:	07/05/18 08:40	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Met	hod: TO-15						
Benzene	ND	ug/m3	0.32	1		06/10/18 18:01	1 71-43-2	
Sample: AKAA-02	Lab ID: 104	38289009	Collected: 07/01/1	8 09:27	Received:	07/05/18 08:40	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Met	hod: TO-15						
Benzene	35.1	ug/m3	0.52	1.61		07/06/18 15:54	4 71-43-2	
Sample: AKAA-02 cert #2029	Lab ID: 104	38289010	Collected: 07/01/1	8 09:27	Received:	07/05/18 08:40	Matrix: Air	***************************************
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Met	hod: TO-15						
Benzene	ND	ug/m3	0.32	1		06/14/18 11:01	71-43-2	
Sample: AKAA-03	Lab ID: 104	38289011	Collected: 07/01/1	8 09:04	Received:	07/05/18 08:40	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Met	hod: TO-15			-		-	
Benzene	0.56	ug/m3	0.50	1.55		07/06/18 16:29	9 71-43-2	
Sample: AKAA-03 cert #1267	Lab ID: 104	38289012	Collected: 07/01/1	8 09:04	Received:	07/05/18 08:40	Matrix: Air	***************************************
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Met	hod: TO-15						
Benzene	ND	ug/m3	0.32	1		06/12/18 18:23	3 71-43-2	



ANALYTICAL RESULTS

Project: AK Steel Middletown, Fenceline

Pace Project No.: 10438289

Date: 07/11/2018 12:30 PM

1 doc 110ject No.: 10400200								
Sample: AKAA-01	Lab ID: 104	38289013	Collected: 07/02/	18 09:45	Received: 07.	/05/18 08:40 N	/latrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Met	hod: TO-15						
Benzene	ND	ug/m3	0.51	1.58		07/06/18 17:41	71-43-2	
Sample: AKAA-01 cert #1281	Lab ID: 104	38289014	Collected: 07/02/	18 09:45	Received: 07	/05/18 08:40 M	/latrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Met	hod: TO-15						
Benzene	ND	ug/m3	0.32	1		04/03/18 03:14	71-43-2	
Sample: AKAA-02	Lab ID: 104	38289015	Collected: 07/02/	18 10:55	Received: 07	/05/18 08:40 M	Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Met	hod: TO-15						
Benzene	6.5	ug/m3	0.52	1.61		07/06/18 18:16	71-43-2	
Sample: AKAA-02 cert #2811	Lab ID: 104	38289016	Collected: 07/02/	18 10:55	Received: 07	/05/18 08:40 N	Matrix: Air	***************************************
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Met	hod: TO-15	***************************************					
Benzene	ND	ug/m3	0.32	1		06/12/18 16:41	71-43-2	



QUALITY CONTROL DATA

Project: AK Steel Middletown, Fenceline

Pace Project No.: 10438289

QC Batch: 548890 Analysis Method: TO-15

QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 10438289001, 10438289003, 10438289005, 10438289007, 10438289009, 10438289011, 10438289013,

10438289015

METHOD BLANK: 2983825 Matrix: Air

Associated Lab Samples: 10438289001, 10438289003, 10438289005, 10438289007, 10438289009, 10438289011, 10438289013,

10438289015

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Benzene ug/m3 ND 0.32 07/06/18 11:04

LABORATORY CONTROL SAMPLE: 2983826

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Benzene ug/m3 32.5 29.4 90 70-134

SAMPLE DUPLICATE: 2984940

 Parameter
 Units
 Result Result Result
 RPD
 Max RPD
 Qualifiers

 Benzene
 ug/m3
 <0.47</td>
 ND
 25

SAMPLE DUPLICATE: 2984941

Date: 07/11/2018 12:30 PM

 Parameter
 Units
 10438289011 Result
 Dup Result
 Max RPD
 Max RPD
 Qualifiers

 Benzene
 ug/m3
 0.56
 0.56
 1
 25

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: AK Steel Middletown, Fenceline

Pace Project No.: 10438289

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

Date: 07/11/2018 12:30 PM

PASI-M Pace Analytical Services - Minneapolis



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AK Steel Middletown, Fenceline

Pace Project No.: 10438289

Date: 07/11/2018 12:30 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10438289001	AKAA-01	TO-15	548890	***************************************	
10438289003	AKAA-02	TO-15	548890		
10438289005	AKAA-03	TO-15	548890		
10438289007	AKAA-01	TO-15	548890		
10438289009	AKAA-02	TO-15	548890		
10438289011	AKAA-03	TO-15	548890		
0438289013	AKAA-01	TO-15	548890		
10438289015	AKAA-02	TO-15	548890		
0438289002	AKAA-01 cert #1768	TO-15	549131		
0438289004	AKAA-02 cert #1481	TO-15	549131		
0438289006	AKAA-03 cert #2689	TO-15	549131		
10438289008	AKAA-01 cert #2390	TO-15	549131		
10438289010	AKAA-02 cert #2029	TO-15	549131		
10438289012	AKAA-03 cert #1267	TO-15	549131		
10438289014	AKAA-01 cert #1281	TO-15	549131		
10438289016	AKAA-02 cert #2811	TO-15	549131		

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The contract of the contract	Phone: 614-526-2040	vin.com End Time 10:19 10:28	Labinfo@CoxColv Kathy_Sarver@Cc Mort_Schmidt@Co Henry_Stahl@Coo Turn Around Time: PO# (None) Carrier: Pace Colum End Vacuum (inHg) Cont 1.9 3.0 Cot 4.0 C 4.0 C 4.0 C 4.0 C	in.com xColvin.com bxColvin.com xColvin.com S-Day bus Service Center bus Service Center bus 352 1768 332 1768 3137 1481 0111 2689 1456 2390 1415 1267 1268		X X X X X Y	Sample Type Sample Type National Market Continue of the Cont	
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Excitation Context Chrolyme Troat	## Contact: Carolynne Trout 1-526-2041 Lab Coutes: 00049208 Lab Cuotes on Middletown, Fenceline Benzene 1-526-2041 Lab Cuotes on Co49208 Lab Cuotes on Co49208 Lab Cuotes on Case of Cas	End Time 10:19 10:28 10:00	Henry_Stahl@Coo Turn Around Time: PO# (None) Carrier: Pace Colurr End Vacuum (inHg) Cont 1.9 Cont 3.0 C 4.0 C 4.0 C	## Application 5-Day		× × × × × CO3' CO3' CO3' ×	Sample Type Sample Type	
Sample Date	### Comments #### Comments #### Comments #### Comments #### Comments #### Comments #### Comments ##### Comments ##### Comments ##### Comments ###################################	End Time 10:19 10:28	Turn Around Time: PO# (None) Carrier: Pace Colum End Vacuum (inHg) Cont 1.9 3.0 C 4.0 C 4.0 C 4.0 C 6.0 C 6.0 C C 6.0 C C C C C C C C C C C C C C C C C C C	S-Day roller ID Canister 352 1768 3137 1481 3111 2689 3456 2390 1381 2029 1415 1267 2415 1267 252 1281 352 1281 363 2811	<u> </u>	Hixed Gases (O2, CO2, CO2, CO2, CO2, CO2, CO2, CO2, C	Sample Type	
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EC. RM_AMS Sumple Date Start Time End Time Find Time F	téon: Middletown, Ohio EC, RM, MS Sample Date Start Time End Time (4/30/2018) 10:25 6/30/2018 10:46 10:25 6/30/2018 10:46 10:25 7/1/2018 10:30 9:27 7/1/2018 10:00 9:04 7/1/2018 10:05 9:04 7/2/2018 10:25 10:25 7/2/2018 10:25 9:40 Start End Start Temperature (Fahrenheit) 71 73 73 73 Pressure (Inhg) 29:40 29:40 Sample (End) Date 6/30/2018	End Time 10:19 10:28	Edrifer: Pace Colum End Vacuum (inHg) Cont 1.9 Cott 4.0 C 4.0 C 4.0 C	roller ID Canister 352 1768 2137 1481 2029 2415 1267 2290 2415 1267 2051 2051 2051 2051 2051 2051 2051 2051	9	X X X X X X TO-15. BENZENI Fixed Gases (OX	Sample Type Sample Type Note that the second of the seco	
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Document Revised: 02May2018

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Page 12 of 29



Fax: 612.607.6444

Qualifiers

ANALYTICAL RESULTS

Client: Cox Colvin Lab Project Number: 10438289

614-526-2040 Phone:

Project Name: AK Steel Middletown, Fenceline

Lab Sample No: 10438289001

ProjSampleNum: 10438289001

DF

Date Collected: 06/30/18 10:19

Client Sample ID:

AKAA-01

Results

ND

Matrix: Air Date Received: 07/05/18 8:40

Analyzed

Air TO-15

Parameters

Date: 7/11/2018

Benzene

0.15 ppbv

Units

1.49 07/06/18 13:31 CH1

71-43-2

CAS No

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Report Limit



Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Cox Colvin

Lab Project Number: 10438289

Phone: 614-526-2040

Project Name: AK Steel Middletown, Fenceline

Lab Sample No:

10438289002 ProjSampleNum: 10438289002

Date Collected: 06/30/18 10:19

Client Sample ID:

Date: 7/11/2018

AKAA-01 cert #1768

Matrix: Air

Date Received: 07/05/18 8:40

Report Limit Parameters Results Units DF Analyzed CAS No. Qualifiers Air TO-15 Benzene ND 0.099 1 06/13/18 0:54 AFV 71-43-2 ppbv



Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Cox Colvin

Lab Project Number: 10438289

Phone: 614-526-2040

Date: 7/11/2018

Project Name: AK Steel Middletown, Fenceline

Lab Sample No: 10438289003

ProjSampleNum: 10438289003

Date Collected: 06/30/18 10:28

Client Sample ID: AKAA-02

Matrix: Air

Date Received: 07/05/18 8:40

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air TO-15							
Benzene	4.3	ppbv	0.14	1.46	07/06/18 14:07 MJL	71-43-2	



Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Cox Colvin

Lab Project Number: 10438289

Phone: 614-526-2040

Project Name: AK Steel Middletown, Fenceline

Lab Sample No: 10438289004

ProjSampleNum: 10438289004

Date Collected: 06/30/18 10:28

Client Sample ID:

Date: 7/11/2018

AKAA-02 cert #1481

Matrix: Air

Date Received: 07/05/18 8:40

Parameters Results Units Report Limit DF Analyzed CAS No.

Air

Qualifiers

Air TO-15

Benzene ND ppbv 0.099 1 06/12/18 20:40 NCK 71-43-2



Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Cox Colvin

Lab Project Number: 10438289

Phone: 614-526-2040

Project Name: AK Steel Middletown, Fenceline

Lab Sample No: 10438289005

AKAA-03

ProjSampleNum: 10438289005

Date Collected: 06/30/18 10:00

Client Sample ID:

Matrix: Air

Date Received: 07/05/18 8:40

Air
TO-15

Date: 7/11/2018

Results Units

Report Limit DF

Analyzed CAS No

Qualifiers

SINO. Qualifiers

Benzene 0.17 ppbv 0.15 1.49 07/06/18 14:43 MJL 71-43-2

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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Fax: 612.607.6444

Qualifiers

ANALYTICAL RESULTS

Client: Cox Colvin

Lab Project Number: 10438289

06/12/18 21:14 NCK

Phone: 614-526-2040

Project Name: AK Steel Middletown, Fenceline

71-43-2

Lab Sample No: 10438289006

ProjSampleNum: 10438289006

Date Collected: 06/30/18 10:00

Client Sample ID:

Benzene

AKAA-03 cert #2689

ND

Matrix: Air

1

Date Received: 07/05/18 8:40

Parameters Results Units Report Limit DF Analyzed CAS No.

Air
TO-15

ppbv

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

0.099

SUPPLEMENTAL REPORT

Units Conversion Request



Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Cox Colvin Lab Project Number: 10438289

614-526-2040 Phone:

Project Name: AK Steel Middletown, Fenceline

Lab Sample No: 10438289007 ProjSampleNum: 10438289007

Date Collected: 07/01/18 9:20

Client Sample ID: AKAA-01 Matrix: Air

Date Received: 07/05/18 8:40

Report Limit Parameters Results Units DF Analyzed CAS No Qualifiers

Air TO-15

> Benzene ND 0.16 1.58 07/06/18 15:18 MJL 71-43-2 ppbv

> > DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Date: 7/11/2018



Fax: 612.607.6444

Qualifiers

ANALYTICAL RESULTS

Client: Cox Colvin Lab Project Number: 10438289

614-526-2040 Phone:

Project Name: AK Steel Middletown, Fenceline

Lab Sample No:

ProjSampleNum: 10438289008

Report Limit

Date Collected: 07/01/18 9:20

Client Sample ID:

AKAA-01 cert #2390

Results

ND

Units

10438289008

Matrix: Air

DF

Date Received: 07/05/18 8:40

Air TO-15

Parameters

Date: 7/11/2018

Benzene

0.099 1 ppbv

06/10/18 18:01 NCK

Analyzed

71-43-2

CAS No

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

Page 8



Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Cox Colvin

Lab Project Number: 10438289

Phone: 614-526-2040

Date: 7/11/2018

Project Name: AK Steel Middletown, Fenceline

Lab Sample No: 10438289009

ProjSampleNum: 10438289009

Date Collected: 07/01/18 9:27

Client Sample ID: AKAA-02

Matrix: Air Date

Date Received: 07/05/18 8:40

Report Limit Parameters Results Units DF Analyzed CAS No Qualifiers Air TO-15 10.8 0.16 1.61 07/06/18 15:54 MJL 71-43-2 Benzene ppbv



ANALYTICAL RESULTS

Client: Cox Colvin

Lab Project Number: 10438289

06/14/18 11:01 CH1

Phone: 614-526-2040

Project Name: AK Steel Middletown, Fenceline

71-43-2

Lab Sample No: 10438289010

ProjSampleNum: 10438289010

Date Collected: 07/01/18 9:27

Client Sample ID:

Benzene

Date: 7/11/2018

AKAA-02 cert #2029

ND

Matrix: Air

1

Date Received: 07/05/18 8:40

Parameters Results Units Report Limit DF Analyzed CAS No. Qualifiers

Air
TO-15

0.099

ppbv

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

Page 10



Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Cox Colvin

Lab Project Number: 10438289

Phone: 614-526-2040

Project Name: AK Steel Middletown, Fenceline

Lab Sample No: 10438289011

ProjSampleNum: 10438289011

Date Collected: 07/01/18 9:04

Client Sample ID:

Date: 7/11/2018

AKAA-03 Matrix: Air

Date Received: 07/05/18 8:40

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air TO-15							
Benzene	0.17	vdag	0.15	1.55	07/06/18 16:29 MJL	71-43-2	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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Fax: 612.607.6444

Qualifiers

ANALYTICAL RESULTS

Report Limit

Client: Cox Colvin

Lab Project Number: 10438289

Analyzed

Phone: 614-526-2040

Project Name: AK Steel Middletown, Fenceline

CAS No.

Lab Sample No: 10438289012

ProjSampleNum: 10438289012

Date Collected: 07/01/18 9:04

Client Sample ID:

Date: 7/11/2018

AKAA-03 cert #1267

Results

Units

Matrix: Air

Date Received: 07/05/18 8:40

Air TO-15

Parameters

Benzene ND

ppbv 0.099 1 06/12/18 18:23 NCK 71-43-2

DF



ANALYTICAL RESULTS

Client: Cox Colvin

Lab Project Number: 10438289

Phone: 614-526-2040

Date: 7/11/2018

Project Name: AK Steel Middletown, Fenceline

Lab Sample No: 10438289013

ProjSampleNum: 10438289013

Date Collected: 07/02/18 9:45

Client Sample ID: AKAA-01

Matrix: Air

Date Received: 07/05/18 8:40

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air TO-15							
Benzene	ND	ppbv	0.16	1.58	07/06/18 17:41 MJL	71-43-2	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Cox Colvin Lab Project Number: 10438289

614-526-2040 Phone:

Project Name: AK Steel Middletown, Fenceline

Lab Sample No: 10438289014 ProjSampleNum: 10438289014

Date Collected: 07/02/18 9:45

Client Sample ID:

Date: 7/11/2018

AKAA-01 cert #1281

Matrix: Air

Date Received: 07/05/18 8:40

Air TO-15

Parameters

Results

Report Limit DF Analyzed CAS No

Qualifiers

ND 0.099 1 04/03/18 3:14 MJL 71-43-2 Benzene ppbv

Units



Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Cox Colvin Lab Project Number: 10438289

614-526-2040 Phone:

Date: 7/11/2018

Project Name: AK Steel Middletown, Fenceline

Lab Sample No: 10438289015 Client Sample ID: AKAA-02 ProjSampleNum: 10438289015

Date Collected: 07/02/18 10:55

Matrix: Air

Date Received: 07/05/18 8:40

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air TO-15							
Benzene	2	ppbv	0.16	1.61	07/06/18 18:16 MJL	71-43-2	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Units Conversion Request



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ANALYTICAL RESULTS

Client: Cox Colvin

Lab Project Number: 10438289

Phone: 614-526-2040

Project Name: AK Steel Middletown, Fenceline

Lab Sample No: 10438289016

ProjSampleNum: 10438289016

Date Collected: 07/02/18 10:55

Client Sample ID:

Date: 7/11/2018

AKAA-02 cert #2811

Matrix: Air

Date Received: 07/05/18 8:40

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air TO-15							
Benzene	ND	vdaa	0.099	1	06/12/18 16:41 NCK	71-43-2	



Date: 7/11/2018

Pace Analytical Services, LLC 1700 Elm Street, Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700

Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Cox Colvin Lab Project Number: 10438289

Phone: 614-526-2040 Project Name: AK Steel Middletown, Fenceline

PARAMETER FOOTNOTES

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